FAULTS

2400 baud, 8 databits, 2 stopbits	19200 baud (or 38400 baud for vehicles without OBD plug)		2400 baud	2400 baud	2400 baud	2400 baud	2400 baud — REAL FAULT CODE 111	2400 baud — REAL FAULT CODE 512
00 00 00 00	00 00 00 A0	00 00 00 A0 01 B0		00 00 00 A0 01 B0	00 00 00 A0 01 B0	00 00 00 A0 01 B0	00 00 00 A0 01 B0 11 B1	00 00 00 A0 01 B0 12 C5
00 00 00 00	00 00 00 B1	00 00 00 B1 FF 5F	00 00 00 B1	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F
00 00 00 00	00 00 00 82	00 00 00 82 81 74	00 00 00 82	00 00 00 82 01 F4	00 00 00 82 01 F4	00 00 00 82 26 A4	00 00 00 82 26 A4	00 00 00 82 26 A4
01 04 00 00	00 00 00 93	00 00 00 93 00 A0	00 00 00 93	00 00 00 93 00 A0	00 00 00 93 00 A0	00 00 00 93 00 A0	00 00 00 93 00 A0	00 00 00 93 00 A0
00 05	00 00 00 E4	00 00 00 E4	00 00 00 E4	00 00 00 E4 01 B0	00 00 00 E4 01 B0	00 00 00 E4 26 E0	00 00 00 E4 26 E0	00 00 00 E4 26 E0
(The blue codes are commands to the ECU and the black or red codes are responses)	00 00 00 F5	00 00 00 F5	00 00 00 F5	00 00 00 F5	00 00 00 F5 01 B0	00 00 00 F5 26 E0	00 00 00 F5 26 E0	00 00 00 F5 26 E0
	00 00 00 C6	00 00 00 C6	00 00 00 C6	00 00 00 C6	00 00 00 C6 00 A0	00 00 00 C6 00 A0	00 00 00 C6 00 A0	00 00 00 C6 00 A0
	00 00 00 D7	00 00 00 D7	00 00 00 D7	00 00 00 D7	00 00 00 D7 00 A0	00 00 00 D7 00 A0	00 00 00 D7 40 E0	00 00 00 D7 40 E0
	00 00 00 28	00 00 00 28	00 00 00 28	00 00 00 28	00 00 00 28 00 A0	00 00 00 28 00 A0	00 00 00 28 00 A0	00 00 00 28 00 A0
	00 00 00 39	00 00 00 39	00 00 00 39	00 00 00 39	00 00 00 39 00 A0	00 00 00 39 00 A0	00 00 00 39 00 A0	00 00 00 39 00 A0
	00 00 00 0A	00 00 00 0A	00 00 00 0A	00 00 00 0A	00 00 00 0A FA F0	00 00 00 0A FA F0	00 00 00 0A FA F0	00 00 00 0A FA F0
	00 00 00 1B	00 00 00 1B	00 00 00 1B	00 00 00 1B	00 00 00 1B 1D 60	00 00 00 1B 1D 60	00 00 00 1B 1D 60	00 00 00 1B 1D 60
	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C
	00 00 00 7D	00 00 E0	00 00 00 7D	00 00 00 7D	00 00 00 7D	00 00 00 7D	00 00 00 7D	00 00 00 7D
	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E
	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	
		00 00 00 A0						

KOEO / KOER (engine running)

2400 baud	19200/38400 baud	19200/38400 baud	2400 baud	2400 baud	2400 baud	2400 baud	2400 baud	2400 baud — 10th time / 9th time for KOER	REAL KOEO/KOER CODES
00 00 00 00	00 00 00 A0	00 00 00 A0 01 B0		00 00 00 A0 01 B0	00 00 00 A0 01 B0	00 00 00 A0 01 B0	00 00 00 A0 01 B0	00 00 00 A0 01 B0 18 21	118
00 00 00 00	00 00 00 B1	00 00 00 B1 FF 5F	00 00 00 B1	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F 59 71	159
00 00 00 00	00 00 00 82	00 00 00 82 81 74	00 00 00 82	00 00 00 82 01 F4	00 00 00 82 25 94	00 00 00 82 25 94	00 00 00 82 25 94	00 00 00 82 25 94 22 B1	122
01 04 00 00	00 00 00 93	00 00 00 93 00 A0	00 00 00 93	00 00 00 93 00 A0	00 00 00 93 00 A0	00 00 00 93 00 A0	00 00 00 93 00 A0	00 00 00 93 00 A0 13 91	113
00 05	00 00 00 E4	00 00 00 E4	00 00 00 E4	00 00 00 E4	00 00 00 E4 01 B0	00 00 00 E4 01 B0	00 00 00 E4 25 D0	00 00 00 E4 25 D0 19 75	519
	00 00 00 F5	00 00 00 F5	00 00 00 F5	00 00 00 F5 01 B0	00 00 00 F5 01 B0	00 00 00 F5 25 D0	00 00 00 F5 25 D0	00 00 00 F5 25 D0 41 C3	341
	00 00 00 C6	00 00 00 C6	00 00 00 C6	00 00 00 C6	00 00 00 C6 00 A0	00 00 00 C6 00 A0	00 00 00 C6 00 A0	00 00 00 C6 00 A0 26 C2	226
	00 00 00 D7	00 00 00 D7	00 00 00 D7	00 00 00 D7	00 00 00 D7 00 A0	00 00 00 D7 00 A0	00 00 00 D7 00 A0	00 00 00 D7 40 E0 52 85	552
	00 00 00 28	00 00 00 28	00 00 00 28	00 00 00 28	00 00 00 28 00 A0	00 00 00 28 00 A0	00 00 00 28 00 A0	00 00 00 28 00 A0 65 C5	565
	00 00 00 39	00 00 00 39	00 00 00 39	00 00 00 39	00 00 00 39 00 A0	00 00 00 39 00 A0	00 00 00 39 00 A0	00 00 00 39 00 A0 56 C5	556
	00 00 00 0A	00 00 00 0A	00 00 00 0A	00 00 00 0A	00 00 00 0A FA F0	00 00 00 0A FA F0	00 00 00 0A FA F0	00 00 00 0A FA F0	
	00 00 00 1B	00 00 00 1B	00 00 00 1B	00 00 00 1B	00 00 00 1B 1D 60	00 00 00 1B 1D 60	00 00 00 1B 1D 60	00 00 00 1B 1D 60	
	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	
	00 00 00 7D	00 00 E0	00 00 00 7D	00 00 00 7D	00 00 00 7D	00 00 00 7D	00 00 00 7D	00 00 00 7D	
	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	
	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	
		00 00 00 A0							

DATA

Decoding formulas for basic parameters are available at https://github.com/babroval/ford-eec-iv-diagnostic/blob/master/eec-iv/src/babroval/eec_iv/service/ParameterServiceImpl.java according to the table https://github.com/babroval/ford-eec-iv-diagnostic/blob/master/eec-iv/EECIVParameters.csv

2400 baud	19200/38400 baud	19200/38400 baud	2400 baud	2400 baud	2400 baud	2400 baud	2400 baud
00 00 00 00	00 00 00 A0	00 00 00 A0 01 B0		00 00 00 A0 01 B0	00 00 00 A0 01 B0	00 00 00 A0 01 B0 01 38 11 28 08 A8 09 B8	00 00 00 A0 01 B0 00 A0 C4 20 ED A3 00 A0
00 00 00 00	00 00 00 B1	00 00 00 B1 FF 5F	00 00 00 B1	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F	00 00 00 B1 FF 5F 0D F8 0E C8 06 48 10 38	00 00 00 B1 FF 5F 00 28 FF A0 B5 73 1E 50
00 00 00 00	00 00 00 82	00 00 00 82 81 74	00 00 00 82	00 00 00 82 01 F4	00 00 00 82 41 96	00 00 00 82 21 F6 05 78 0C E8 04 68 0B 98	00 00 00 82 21 F6 B5 73 1E 50 00 A0 00 A0
01 04 00 00	00 00 00 93	00 00 00 93 00 A0	00 00 00 93	00 00 00 93 00 A0	00 00 00 93 00 A0	00 00 00 93 00 A0 07 58 0C E8 04 68 0B 98	00 00 00 93 00 A0 6B 61 00 A0 28 00 02 A2
00 05	00 00 00 E4	00 00 00 E4	00 00 00 E4	00 00 00 E4	00 00 00 E4 01 F0	00 00 00 E4 41 F0 17 48 1A 98 1B 88 16 58	00 00 00 E4 21 90 00 A0 00 28 12 90 00 A0
	00 00 00 F5	00 00 00 F5	00 00 00 F5	00 00 00 F5	00 00 00 F5 41 F0	00 00 00 F5 21 90 20 08 20 08 20 08 20 08	00 00 00 F5 21 90 00 A0 00 28 12 90 00 A0
	00 00 00 C6	00 00 00 C6	00 00 00 C6	00 00 00 C6	00 00 00 C6 00 A0	00 00 00 C6 00 A0 20 08 20 08 20 08 20 08	00 00 00 C6 00 A0 00 A0 00 A0 00 A0 00 A0
	00 00 00 D7	00 00 00 D7	00 00 00 D7	00 00 00 D7	00 00 00 D7 00 A0	00 00 00 D7 00 A0 20 08 20 08 20 08 20 08	00 00 00 D7 00 A0 00 A0 00 A0 00 A0 00 A0
	00 00 00 28	00 00 00 28	00 00 00 28	00 00 00 28	00 00 00 28 00 A0	00 00 00 28 00 A0 01 38 11 28 08 A8 09 B8	00 00 00 28 00 A0 00 A0 C4 20 ED A3 00 A0
	00 00 00 39	00 00 00 39	00 00 00 39	00 00 00 39	00 00 00 39 00 A0	00 00 00 39 00 A0 0D F8 0E C8 06 48 10 38	00 00 00 39 00 A0 00 28 FF A0 B5 73 1E 50
	00 00 00 0A	00 00 00 0A	00 00 00 0A	00 00 00 0A	00 00 00 0A FA F0	00 00 00 0A FA F0 05 78 0F D8 15 68 26 68	00 00 00 0A FA F0 B5 73 1E 50 00 A0 00 A0
	00 00 00 1B	00 00 00 1B	00 00 00 1B	00 00 00 1B	00 00 00 1B 1D 60	00 00 00 1B 1D 60 07 58 0C E8 04 68 0B 98	00 00 00 1B 1D 60 6B 61 00 A0 28 00 01 92
	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C	00 00 00 6C 17 48 1A 98 1B 88 16 58	00 00 00 6C 00 A0 00 A0 00 28 12 90 00 A0
	00 00 00 7D	00 00 00 7D	00 00 00 7D	00 00 00 7D	00 00 00 7D	00 00 00 7D 20 08 20 08 20 08 20 08	00 00 00 7D 00 A0 00 A0 00 A0 00 A0 00 A0
	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E	00 00 00 4E 20 08 20 08 20 08 20 08	00 00 00 4E 00 A0 00 A0 00 A0 00 A0 00 A0
	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F	00 00 00 5F 20 08 20 08 20 08 20 08	00 00 00 5F 00 A0 00 A0 00 A0 00 A0 00 A0
		00 00 00 A0					

REAL LIVE DATA PARAMETERS

Value	Parameter	SOME VEHICLES AFTER 1995
00 A0 (0)	RPM	RPM
C4 20 (12,2)	SUPPLY VOLTAGE (V)	SUPPLY VOLTAGE (V)
ED A3 (50)	LAMBDA (mV)	THROTTLE POSITION (mV)
00 A0 (0,00)	THROTTLE POSITION (mV)	THROTTLE MODE
00 28 (0)	SHORT FUEL CORRECTION (%)	LAMBDA (mV)
FF A0 (CLOSED)	THROTTLE MODE	SHORT FUEL CORRECTION (%)
B5 73 (4.63)	COOLANT SENSOR (V)	COOLANT
1E 50 (16)	COOLANT (C)	COOLANT (C)
B5 73 (4.63)	AIR TEMP SENSOR (V)	AIR TEMP
1E 50 (16)	AIR TEMP (C)	AIR TEMP (C)
00 A0 (0)	IDLE VALVE (%)	IDLE VALVE (%)
00 A0 (0,00)	AIRFLOW METER (mV)	AIRFLOW METER (mV)
6B 61 (1.77)	EGR DIFFERENTIAL PRESSURE (V)	EGR DIFFERENTIAL PRESSURE (V)
00 A0 (0,00)	INJECTION PULSE (us)	INJECTION PULSE (us)
28 00 (10)	IGNITION TIMING (deg)	IGNITION TIMING (deg)
02 A2 (4.98)	SENSORS POWER VOLTAGE (V)	SENSORS POWER VOLTAGE (V)
00 A0 (0)	VEHICLE SPEED (km/h)	VEHICLE SPEED (km/h)
00 28 (OFF)	FUEL VAPOR VALVE MODE	FUEL VAPOR VALVE MODE
12 90 (OFF)	FUEL PUMP MODE	FUEL PUMP MODE
00 A0 (OPEN)	LAMBDA CIRCUIT MODE	LAMBDA CIRCUIT MODE
12 90 (YES)	HIGH PRESSURE POWER STEERING MODE	ENGINE COOLING FAN MODE
00 28 (YES)	PARK/NEUTRAL AUTO GEARBOX SWITCH	HIGH PRESSURE POWER STEERING MODE
00 A0 (OFF)	TORQUE CONVERTER CLUTCH MODE	PARK/NEUTRAL AUTO GEARBOX SWITCH
00 A0 (OFF)	AIR CONDITIONER BLOCK MODE	TORQUE CONVERTER CLUTCH MODE
00 A0 (OFF)	AIR CONDITIONER MODE	AIR CONDITIONER BLOCK MODE
00 A0 (OFF)	OCTANE BRIDGE MODE	AIR CONDITIONER MODE
00 A0 (SPARE)		OCTANE BRIDGE MODE
00 A0 (SPARE)		
00 A0 (SPARE)		
00 A0 (SPARE)		
00 A0 (SPARE)		
00 A0 (SPARE)		